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Department of Environment

Ministère de l'Environnement

18-Aug-23

Marie-Claud Lapointe

Defense Research and Development Canada

2459 de la Bravoure Road

Quebec . QC

Wildlife Research Permit WL 2023-056

Re: Environmental behaviour of ammunition constituents in arctic conditions.

This wildlife research permit authorizes you to carry out the proposed research as indicated in your wildlife research permit application.

As per application: Perform fieldwork to aid in the assessment of the environmental fate and ecological impact of munitions constituents under the environmental conditions specific to northern Canada. Indications on the presence of munitions constituents and transformation products in surface water will be assessed using a multiparameter water quality meter; Water samples to be collected from the site and surroundings for energetic material, metal, ammoniacal nitrogen, anions and perchlorate analysis; Certified cleaned amber glass and plastic bottles will be clamped to a cleaned perch to grab the water sample from the shore; The presence of munitions constituents will also be assessed in the soil based on a multi-increment sampling approach using cookware measuring tablespoons; If evidence on the use of munitions is located, an overall of 5kg of soil samples is foreseen to be collected in HDPE bags; Collected water and soil samples will be brought back for analysis at Defense Research and Development Canada - Valcartier Research Centre in

The Nunavut Wildlife Management Board has requested that any reports or publications generated by your research be submitted to them for their records. The Department of Environment also requires receiving a copy of materials generated from your work for our records, and we encourage you to follow up with the communities involved by making information and material on your research available to them.

This permit will **expire on 2026-11-30** Under the Wildlife License and Permits Regulations section 16. (3), Wildlife Research Permits can only be issued for up to 3 years.

Please be aware that the Arctic Institute of North America is compiling information on research projects in the arctic. We will be providing them with information on the research in Nunavut, which we have permitted. If you have any objections to the release of information on your project please let us know.

Sincerely,
Francis Piugattuk

Legislation and Management Technician
Wildlife Management Division
Government of Nunavut